

ABSTRACT

[Problems] To provide an electrode that is stable in liquid and is capable of processing a large volume of liquid and a small electrode that is capable of processing a large volume of liquid at high speed; provide a liquid processor and method of processing liquid in which the electrode is used; provide an electrode material being hard to be damaged by thermal stress; and provide an electrode, liquid processor and method of processing liquid in which the electrode material is used. [Means for solving problems] An electrode of configuration resulting from coating solid pieces of 5 to 60 mm size with electrically conductive diamond, supporting them on supports and bringing the same into contact with each other so as to realize current passage as a whole is used in various electrochemical process. Also, an electrode including (1) electrically conductive substrate, (2) covering layer covering the electrically conductive substrate and (3) electrically conductive diamond particles fixed on the covering layer, wherein each of the electrically conductive diamond particles is partially brought into contact with the electrically conductive substrate and another portion thereof is partially exposed on the surface of the covering layer. Further, an

electrode material, wherein an entire side surface of columnar or tubular substrate is coated with electrically conductive diamond is used.